

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	60341	low\$4 near5 refract\$4 near5 index	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:03
L2	556	"345"/\$.ccls. 1	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:03
L12	5	"6556149"	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:06
L13	2	"20020020808"	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:07
L14	50	"6154586"	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:07
L15	72312	(small\$4 or low\$4) near5 refract \$4 near5 (index or indic\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:15
L16	12549	"385"/\$.ccls. 15	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:15
L17	551	(small\$4 or low\$4) near5 refract \$4 near5 (index or indic\$4) with (switch\$4 or actuat\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:16
L18	236	"385"/\$.ccls. 17	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:16
L19	18	"345"/\$.ccls. 17	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 21:16
S1	4	US-4254333-\$.DID. OR US- 6028978-\$.DID. OR US-6154586- \$.DID. OR US-6642913-\$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:30
S2	45	("5858564" "5914760" "5965064" "6195196" "6288829" "6327071" "6338910" "6344156").PN. OR ("6642913").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:31
S3	1	09/054639.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:54
S4	1	10/583986.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 10:03
S5	14	("3934248" "4294517" "4551717" "4630895" "4641026" "5034602").PN. OR ("6369800").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 10:06

S6	251	"345".clas. and optical near4 button	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:44
S7	5	"345".clas. and optical near4 button with joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:44
S8	59	"345".clas. and optical near2 sensor with joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:45
S9	1	("5,694,153").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/20 13:47
S10	561	(345/166).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/20 13:49
S11	80	S10 and joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:49
S12	99	("3643148" "4180860" "4464652" "4533827" "4533830" "4538476" "4550250" "4573925" "4578674" "4682159" "4688933" "4698626" "4736191" "4782335" "4786892" "4823634" "4917516" "4949080" "5045843" "5142506" "5166668" "5186629" "5204947" "5298919" "5313230" "5389950" "5510893" "5532476" "D281776" "D291318" "D302010" "D315896").PN. OR ("5694153").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:52
S13	7	"09563088"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:53
S14	1	09/563088.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:53
S15	6	barrowclough-philip.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 15:18
S16	9	wingett-gary.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 15:19
S17	6774	(345/156,157,161,166).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/21 08:48
S18	3625	S17 and light	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:48
S19	1854	S18 and (photodiode or detector or receiver)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:48
S20	4544	S17 and (optical or light)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S21	2195	S20 and (photodiode or detector or receiver)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S22	1106	S21 and (key or keypad)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S23	555	S22 and reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S24	533	S23 and position	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:50

S25	1848	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:52
S26	40	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same reflection same position	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:53
S27	72	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same cursor control	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:30
S28	4	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:35
S29	8	S17 and (light or photo or optical) near3 (diode or detector or receiver or sensor) same optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:36
S30	14	S17 and optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:37
S31	14	("3553470" "4581603" "4782327" "4935728" "5357094" "5704037" "5760764").PN. OR ("6034668"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S32	1	S31 and optical grating'	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S33	1	S31 and optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S34	1	cursor control with optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S35	1	cursor control same optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S36	24	cursor control and optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S37	4062	optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:40
S38	13	navigation button same cellphone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:54
S39	73	"4" way with rocker switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:55
S40	127	optical same rocker switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:56
S41	534	"4" way near3 switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:57
S42	5	"4" way near3 switch with optical	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:57
S43	0	"4" way near3 switch same cellphone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:58
S44	2	"4" way near3 switch same cell phone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:59

S45	11	"4" way near3 switch near5 navigat\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:59
S46	422	optical grating near4 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:00
S47	0	optical grating near4 (improv\$3 or better) near2 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:00
S48	296	optical grating near2 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:01
S49	0	optical grating near2 reflect\$3 near5 efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02
S50	0	optical grating near2 reflect\$3 with efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02
S51	94	optical grating with efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02
S52	65	optical grating with (wave or light) guide	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:06
S53	65	optical grating with (wave or light) guide and optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:09
S54	1	("6,196,691").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/22 09:12
S55	0	("US20070147731A1").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2009/08/28 09:32
S56	2	US "20070147731" A1	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:33
S57	2962	(light near3 guide) same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
S58	0	345/4.ccls. S57	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
S59	124	"345"/\$.ccls. S57	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
S60	111935	(optic\$4) same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
S61	3584	"345"/\$.ccls. S60	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
S62	80975	(optic\$4) light same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
S63	3475	"345"/\$.ccls. S62	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06
S64	1156	(optic\$4) light same (actuator or button or key) same deform\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06

S65	39	"345"/\$.ccls. S64	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06
S66	7989	touch\$1screen same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:07
S67	832	"345"/\$.ccls. S66	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:07
S68	18	touch\$1screen same (actuator or button or key) same deform\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:08
S69	54	("3778553" "4002855" "4326193" "4491692" "4639881" "4870458" "4882582" "4890832" "4899137" "5057677" "5140632" "5214429" "5223677" "5416610" "5485176" "5572573" "5574446" "5576981" "5577848" "5581243" "5581670" "5584054" "5594471" "5601489" "5657072" "5694150" "5701141" "5715524" "5738450" "5808920" "5847698" "5887995" "5982355" "6088023" "6175679" "6286064" "D359273").PN. OR ("6492978"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:09
S70	22	("20020126103" "4645870" "4700176" "5149986" "5177327" "5451723" "5573077" "5673041" "5813280" "5856820" "5977867" "5986224" "6078315" "6085576" "6087599" "6091406" "6369806" "6411287" "6473075" "6492978" "6556150" "6606081").PN. OR ("7463249").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:11
S71	831	touch\$1screen same (actuator or button or key) same (optic\$5 or light)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:12
S72	76	"345"/\$.ccls. S71	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:13
S73	3	touch\$1screen same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16
S74	2846	light same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16

S75	10	345/173.ccls. S74	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16
S76	128	(light near3 guide) same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:19
S77	20	("3519116" "3558213" "3673327" "4116531" "4254333").PN. OR ("4480182"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:23
S78	9	"6369800"	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 14:16
S79	2087	(liquid near3 crystal) same (calibrat\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:42
S80	265	"345"/\$.ccls. S79	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:42
S81	274	(liquid near3 crystal) same (calibrat\$4) same test\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:42
S82	21	"345"/\$.ccls. S81	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:43
S83	18	(liquid near3 crystal) same (calibrat\$4) same test\$4 same (maximum or minimum)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:45
S84	2	(liquid near3 crystal) same (calibrat\$4) same gamma same (maximum or minimum)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:47
S85	16	(liquid near3 crystal) ((calibrat\$4) same test\$4 same (maximum or minimum) same gamma)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/09/01 11:47
S86	3442	(refract\$4 near3 index) same (actuator or button or key)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:43
S87	142	(refract\$4 near3 index) same (actuator or button or key) same (light with (guide or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:43
S88	600	(refract\$4 near3 index) same (actuator or button or key or switch) same (light with (guide or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:44

S89	10	"345"/\$.ccls. S87	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:44
S90	17	"345"/\$.ccls. S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:44
S91	291	"385"/\$.ccls. S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:46
S92	191	(refract\$4 near3 index) with (actuator or button or key or switch) with (light with (guide or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 09:48
S93	20	("3519116" "3558213" "3673327" "4116531" "4254333").PN. OR ("4480182"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/13 10:02
S94	14	("3934248" "4294517" "4551717" "4630895" "4641026" "5034602").PN. OR ("6369800").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/13 10:03
S95	11	(refract\$4 near3 index near (lower or higher)) with (actuator or button or key or switch) with (light with (guide or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:04
S96	80	(refract\$4 near3 index near (lower or higher)) same (actuator or button or key or switch) same (light with (guide or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:07
S97	571	reflect\$4 near3 silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:12
S98	89	reflect\$4 near3 silicone near3 rubber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:13

S99	1381	chang\$4 with refract\$4 with index with light with (guide or channel or tunnel or plate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:29
S100	242	(chang\$4 near3 refract\$4 near3 index) with (light near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:30
S101	217	(chang\$4 near3 refract\$4 near3 index) with (wave near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:39
S102	16	(chang\$4 near3 refract\$4 near3 index) with (wave near3 guide) same input	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:39
S103	19	(chang\$4 near3 refract\$4 near3 index) with (wave near3 guide) (input near3 device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:40
S104	706	(button or plunger or touch\$1pad or touch\$1screen) same (refract\$4 near3 index)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:42
S105	209	(button or plunger or touch\$1pad or touch\$1screen) with (refract\$4 near3 index)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:42
S106	9	(touch\$1pad or touch\$1screen) with (refract\$4 near3 index)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:43
S107	2865	"345"/\$.ocls. (refract\$4 near3 index)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:44

S108	173	"345"/\$.ccls. ((refract\$4 near3 index) same ((wave or light) near3 guide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:46
S109	144	"345"/\$.ccls. ((refract\$4 near3 index) with ((wave or light) near3 guide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:46
S110	10920	optic\$4 near3 input near3 device	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:51
S111	141	(optic\$4 near3 input near3 device) same ((light or wave) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:51
S112	36	"4254333"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:55
S113	23	"6028978"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 10:56
S114	38	"6154586"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:04
S115	66	"6642913"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:06
S116	41545	chang\$4 near3 refract\$4 near3 index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:08

S117	8209	"385"/\$.ccls. S116	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:08
S118	319	"345"/\$.ccls. S116	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:08
S119	466	(chang\$4 near3 refract\$4 near3 index) with ((light or wave or optic \$4) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:09
S120	163	"385"/\$.ccls. S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:10
S121	0	(chang\$4 near3 refract\$4 near3 index) with ((light or wave or optic \$4) near3 guide) with (push\$4 or press\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:11
S122	2	"345"/\$.ccls. S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:11
S123	158242	"250"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:13
S124	23	S119 S123	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:13
S125	2	(lower near3 refract\$4 near3 index) with (actuator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:15

S126	82	actuator near3 (refract\$4 near3 index)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:15
S127	2596	high\$4 near3 (refract\$4 near3 index) same ((light or wave or optic\$4) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:21
S128	5	high\$4 near3 (refract\$4 near3 index) same ((light or wave or optic\$4) near3 guide) same ((movable or moving or move) near3 (member or actuator or button or switch))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:22
S129	77	high\$4 near3 (refract\$4 near3 index) same ((light or wave or optic\$4) near3 guide) same (actuator or button or switch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:23
S130	1024	chang\$4 near3 (refract\$4 near3 index) same ((light or wave or optic\$4) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:26
S131	486	chang\$4 near3 (refract\$4 near3 index) with ((light or wave or optic\$4) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:27
S132	213	chang\$4 near3 (refract\$4 near3 index) near3 ((light or wave or optic\$4) near3 guide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/02/13 11:27
S133	14	(refract\$4 near3 index) same (actuator or button or key) same (light with (guide or tunnel or channel)) same increas\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:21
S134	4	"6556149"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:25

S135	2	"20020020808"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:25
S136	2114	(optic\$4 near3 switch) with refract \$4 with index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:26
S137	8	"345"/\$.cls. S136	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:26
S138	309	(refract\$4 near3 index) same (actuator or button or key) same (light\$4 with (substrate or guid\$4 or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:27
S139	89	((refract\$4 near3 index) with (larg \$4 or high\$4 or increas\$4)) same (actuator or button or key) same (light\$4 with (substrate or guid\$4 or tunnel or channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/09/29 11:32
S140	1	(zaizen katsunori).inv.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 12:14
S141	0	(hirota motonari).inv.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 12:14
S142	253	(kondo shinji).inv.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 12:15
S143	30	matsushita.asn. S142	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 12:15
S144	2982	actuat\$4 same refract\$4 same index	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:19
S145	1318	actuat\$4 same refract\$4 same index same (low\$4 or high\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:19
S146	86	"345"/\$.cls. S144	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:19
S147	32	("3673327" "4068222").PN. OR ("4254333").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2011/06/16 15:31

S148	107	actuat\$4 with refract\$4 with index with (low\$4 or high\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:39
S149	1119	(switch\$4 or actuat\$4) with refract \$4 with index with (low\$4 or high \$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:46
S150	21	"345"/\$.ccls. S149	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:46
S151	626	(switch\$4 or actuat\$4) with refract \$4 with index with (low\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:55
S152	334	(switch\$4 or actuat\$4) with refract \$4 with index with (lower)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 15:55
S153	54	(button or actuat\$4) with refract \$4 with index with (lower)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 16:32
S154	20	(button or actuat\$4) with refract \$4 with index with (lower) with surface	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 16:49
S155	100	(button or actuat\$4 or switch) same refract\$4 with index with (lower) with surface	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 16:49
S156	1163	(button or actuat\$4 or switch) same refract\$4 with index with surface	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 16:51
S157	47	"345"/\$.ccls. S156	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2011/06/16 16:51

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